

FIGURE 1

FOOT 15492660

pbrA-v	:	MEPVSTGRCDSPILLQAFVDNR	ILVKIAARITGCRSRAEDVVQDAY	FRLQSAPTITSSFKQAQLSYLFQI	:	70
pbrA	:	MEQVSTGRCDSPILLHAFVDNR	ILVKIAARITGCRSRAEDVVQDAY	FRLQSAPPIITSSFKQAQLSYLFQI	:	70
pvdS	:	MSEOHSTRRCDTPLLOAFVDNR	ILVKIAARITGCRSRAEDVVQDAY	FRLQSAPPIITSSFKQAQLSYLFQI	:	70
pfrI	:	MAEOHSTRRCDTPLLOAFVDNR	ILVKIAARITGCRSRAEDVVQDAY	FRLQSAPPIITSSFKQAQLSYLFQI	:	70
		M Eq ST CDSPLLQAFVDNR	ILVKIAARITGCRSRAEDVVQDAFRLqSAP	ITSSFKQAQLSYLFQI		
pbrA-v	:	VRNLAIIDHYRKQAE	TEEEKYSGTEEEGLNVVVIHGASPE	SHININ	TLLEN	IAADALTQLPQRTTRAFEMYRLHG
pbrA	:	VRNLAIIDHYRKQAE	TEEEKYSGTEEEGLNVVVIHGASPE	SHININ	TLLEN	IAADALTQLPQRTTRAFEMYRLHG
pvdS	:	VRNLAIIDHYRKQAE	TEEEKYSGTEEEGLNVVVIHGASPE	SHININ	TLLEN	IAADALTQLPQRTTRAFEMYRLHG
pfrI	:	VRNLAIIDHYRKQAE	TEEEKYSGTEEEGLNVVVIHGASPE	SHININ	TLLEN	IAADALTQLPQRTTRAFEMYRLHG
		VRNLAIIDHYRKQAE	TEEEKYSGTEEEGLNVVVIHGASPE	SHININ	TLLEN	IAADALTQLPQRTTRAFEMYRLHG
pbrA-v	:	VPQKDI AKELGVSP	TLVNFEMIRDALVHCRKVSSCHS	---	IFAR-RV	: 183
pbrA	:	VPQKDI AKELGVSP	TLVNFEMIRDALVHCRKVSSCHS	---	AVVGR	: 184
pvdS	:	VPQKDI AKELGVSP	TLVNFEMIRDALVHCRKVSSCHS	---	AVVGR	: 187
pfrI	:	VPQKDI AKELGVSP	TLVNFEMIRDALVHCRKVSSCHS	---	AVVGR	: 176
		VPQKDI AKELGVSP	TLVNFEMIRDALVHCRKVSSCHS	---	AVVGR	: 176

Variable C-terminus

FIGURE 2

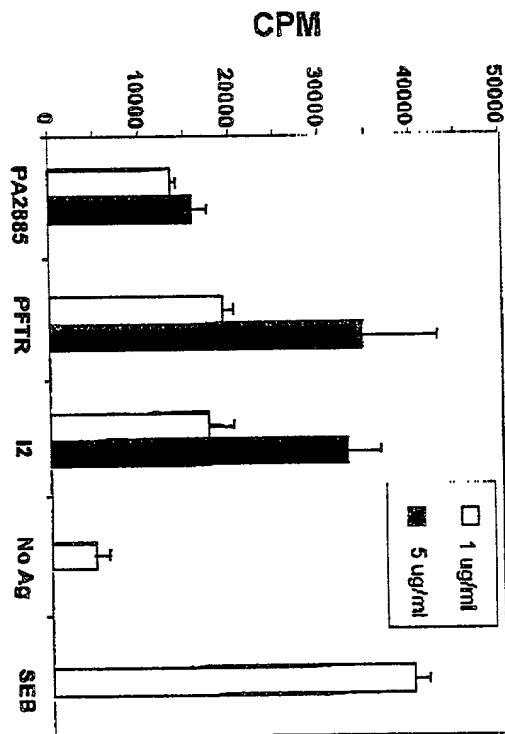


FIGURE 3

09976451-101201

atgacggaaccagtatccacaggcaggtgcgattcacccttctccaggcggttcgtcgacaatcg
actgattctggtgaagatcgcgggccggtatcaccgggtgccgctcccgcgccgaagacgtggtgc
aggacgcctacttccgggtgcagtcggcgccgaccatcacctcatcgttcaaggcccaactgagt
tatctgtttcagatcgtagcaacctggcgatcgatcattaccgcaagcaggccctggagctcaa
atactccgggaccgaagaggaaggcttgaatgtggttattcacggcgcttcaccggaaacctcgc
acatcaatttcaacaccttggaacacatcgccgacgccctgacgcaactgccccagcgcacccgc
tacgcgttcgagatgtaccgcttgcattggcggtgccgcaaaaagacatcgccaaggagcttgggg
gtctccgaccttggtgaacttcatgattcgcgatgcgctggtgcattgccgcaagggtgtcgggca
gtcatagcgatacgtttgcgcggcggtttaa

FIGURE 4A

MTEPVSTGRCDSPLLQAFVDNRLILVKIAARITGCRSRAEDVVQDAYFRLQSAPTITSSFKAQLS
YLFQIVRNLAIDHYRKQALELKYSGTEEEGLNVVIHGASPETSHINFNTLENIADALTQLPQTR
YAFEMYRLHGVPQKDIKELGVSPTLVNFMIRDALVHCRKVSGSHSDTFARRV

FIGURE 4B

ATGCGCACCATGGTCGACAGTGGCCAATTGACCGACCCCGAGAGCGCCCGCGGCAAGTTGCTGCA
AACCGCGGCTCATCTGTTTCGCAACAAGGGTTTCGAGCGCACCACCGTGCGAGATCTGGCCAGCG
CCGTGGGCATCCAGTCCGGCAGCATCTTTCATCACTTCAAGAGCAAGGATGAGATATTGCGTGCC
GTGATGGAGGAAACCACCCATTACAACACCGCGATGATGCGCGCTTCACTGGAAGAAGCGAGCAC
GGTGCGCGAACGCGTGCTGGCGCTGATCCGCTGCAAGTTGCAGTCGATCATGGGCGGCAGTGGCG
AGGCCATGGCGGTG**CTGGTCTAC**GAATGGCGCTCGCTGTCGGCCGAAGGCCAGGCGCACGTGCTG
GCCCTGCGTGACGTGTATGAGCAGATCTGGTTGCAGGTACTGGGCGAGGCCAAGGCCGCTGGCTA
CATC**CGGGGCGAC**GTGTTTATTACCCGGCGCTTCCTCACCGGGGCCTTATCCTGGACCACCACct
GGTTTCGTGCCCCAAGGCAGCCTGACCCTTGAGGAGTTGGCCGAAGAGGCCcttggtgaTggtGCTG
AAGTCGGACTGA

FIGURE 5A

MRTMVDSGQLTDPESARGKLLQTA AHLFRNKG FERTTVRD LASAVGIOSGSIFHHFKSKDEILRA
VMEETTHYNTAMMRASLEEASTVRERVLALIRCKLOSIMGGSGEAMAV**LVY**EWRSLSAEGQAHVL
ALRDVYEQIWLQVLGEAKAAGYIR**GD**VFITRRFLTGALSWTTTWFRAGQSLTLEELAEELMVL
KSD

FIGURE 5B

1 cgacggcccc ggctggtctg tttgagttga ggggtgcaggt catcgccgag caacacggcg
61 attttcagcg ggatgtgcgc gttatcgag gccgcttgca gggcgccggc gcaggcttgg
121 ggggtgatac caccggcatt gctgatcacc cggatgcctt ggcgctggat atccgccagc
181 aggggtgtca gcacctcgac aaaatccgtg gcgtaaccgg ccttgggggtc tttcaggcgg
241 gcaccggcga ggatcgacag ggtgacttcc gcgaggtaat cgaacaccag gtaatccaag
301 gcaccgccct gcaccaattg ggcgccggcg gtgcaagtgt cgcgccagaa ggcgctggcg
361 cagccgatac gtaccgtctt gctcatgaga aatccttctt ccaagggctg gtgcgagac
421 taccaagcaa gcgcttgggt tgtaaactcc agtcacaagt tttacccaag cgcttgcttg
481 ggtggcagtc acggcctaaa ttgccggcca agacgacagt agacgtgaag gagagcagca
541 tggatgagca caaagccctg ggggtgatgc gcacatggt cgacagtggc caattgaccg
601 accccgagag cgcgcggcg cagttgctgc aaaccgcggc tcatctgttt cgcaacaagg
661 gtttcgagcg caccaccgtg cgagatctgg ccagcgccgt gggcatccag tccggcagca
721 tctttcatca cttcaagagc aaggatgaga tattgctgct cgtgatggag gaaaccaccc
781 attacaacac cgcgatgatg cgcgcttcac tggagaagc gagcacggtg cgcgaacggc
841 tgctggcgct gatccgctgc aagttgcagt cgatcatggg cggcagtggc gaggccatgg
901 cgggtgctgg ctacgaatgg cgtcgtctgt cggccgaagg ccaggcgcac gtgctggccc
961 tgctgacgt gtatgagcag atctggttgc aggtactggg cgaggccaag gccgctggct
1021 acatccgggg cgacgtgttt attaccggcg gcttcctcac cggggcctta tctggacca
1081 ccacctgggt tctgccccaa ggcagcctga cccttgagga gttggccgaa gaggccttgt
1141 tgatggtgct gaagtccgac tgaggcgcaa gttattaatt tgctggcgaa agttgtctcc
1201 cccaataaaa acgcctagct tatcgccatt gaactcttca acggtgtgtg cctcgatgtt
1261 ttgcgcatgg cggctggctg caggacttac tttatgggca ctgggcaccg ccgctgggac
1321 gcaggctggt gccgcgcatg tggtgagaat cggcgccggc cattttccgc cctacaccgt
1381 acgccctgaa caaggcgccg acaccgggtt gctgccgcaa ttggtcgagg cgttgaacgc
1441 tgcgcaaacc gattaccagt ttgtgggtgg gcctacctcg atacctcggc gttttcgtga
1501 cttcgagcaa ggccgggtcg acatggcgat cttcgaaaac ccgtcctggg gttggcagaa
1561 tattgcccat accagtgttg atatggggct gaagatgcgg agatttttgt cgtcagcgt
1621 cagcccggtc ggcaccagag ttatttttcc gacctaccg gaagcgtgg cggtattcag
1681 cgggtatcac tatgcctttg ctgacttcaa tcccgatccc aagaacatgc cgagcgtttc
1741 aacgcgacgt tgacctactc ccatgacagt aatctgctga tgggtgctcg tggcgctgca
1801 gatattgcgc tggttaccgg ctcgtacctg agtgatttca tgggtgcgaa cgcggacatg
1861 gcggggcagt ttttggtgtc ggagcgtatt gaccaggtgt atcaccacta cgcgttgttg
1921 cgnccaaggc acccgatcac tgggtccggc tttgccgaa ctgctcaagt cttgcgcgac
1981 agtggccaga tgctgaagat ttttgagccg tatcgtattg atgtgacgc ggtgccctaa
2041 ggtcttagta agtaaaatcc ttccgggtca gtgggatcaa ctgtggaagc tggcttgcc
2101 gcgatggcgg cctgacagcc gacacagatt aattgatgct gatgccccgc gatccaatgt
2161 gggagcttgg cttgcctgcg aagacggcct gacagtcaac acagttggac cgtgtacata
2221 tccatccctt gcggtaacgg gctacttagg gttccgcttt tacagcggct cacttttgaa
2281 aagcgcaaaa gtaagcaaaa cgtctttggc ccaccactcg gcacctcgcc aggcctcgtg
2341 tgcccgtaat ccgccagtga tttggggggc cgcacacggc catccatgcg cggggcggtt
2401 aaacggatcc ctgcgggttt acccccaaa tccctgtcg aattccggcc agcgtggttt
2461 aacggggcgc ctaagatcaa aagccagatc aagatcacia gcagatcaag atcacaagca
2521 gatcaagatc acaagcagat caagatcaca agcagatcaa gatcaagagc gggctcgtt
2581 cgcacgttag tttccgtgga gcccttacc acatagtctg gcgctggatt aaaccggcg
2641 cgcaaacgta tcgctatgac tgcccagacac cttgcccga tgcaccagcg catcgccaat
2701 catgaagtcc accaaggctg gagacacccc aagctccttg gcgatgtctt tttgcggcac
2761 gccatgcaag cgttacatct cgaacgcgta ggggtgctg tggggcagtt agcgcaggc
2821 gtcggcgatg ttttccaggg tgttgaaatt gatgtgcgag gtttcgggtg aagcgccgtg
2881 aataaccaca ttcaagcctt cctcttcggt cccggagtat ttgagctcca gggcctgctt
2941 gcggtaatga tcgatcgcca ggttgctgac gatctgaaac agataactca gttgggctt
3001 gaacgatgag gtgatggtcg gcgcgactg cagccggaag taggcgtcct gcaccacgtc
3061 ttcggcgcgg gagcggcacc cggtgatacg ggccgcgac ttcaccagaa tcagtcgatt
3121 gtcgacgaac gcctggagaa ggggtgaatc gcacctgcct gtggatactg gttccgtcat

FIGURE 6 (page 1 of 2)

Inventors: Braun et al.
Attorney Docket No.: P-PM 4968

3181 ggaaatcacc ttgctgcaa taggttaggg aagggcatcc ctgttaggcc tctacatat
3241 cgggcaccaa attatgctta atgataatga ttgtcaaata agaaggcgaa ctaatcttat
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3541 tctacgtcgc ctggcgccgg gtgctgccgg actggctgca agtgtgcccg ctggaattgc
3601 cgggacgcgg catgcgcgat gacgagccat tgcagcgca taccagcccg ggccgtc

FIG. 6 (continued)

FIGURE 6 (page 2 of 2)